



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
ALONZO W. BEASLEY, JR.

Serial No: 10/684,639

Examiner: Singh, Arti R.

Filed: October 14, 2003

Art Unit: 1771

Title: MOTOR VEHICLE AIRBAG AND
FABRIC FOR USE IN SAME

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 CFR 1.131

Dear Commissioner:

I, the individual whose signature appears below, do hereby declare that:

1. I am an officer of Safety Components Fabric Technologies, Inc., owner of the above patent application by virtue of written assignment from the inventor.
2. This application was filed on October 14, 2003, but claims the benefit of application Serial No. 09/558,766, filed April 26, 2000.
3. I have been advised that all claims of the application have been rejected as being unpatentable over the disclosure of U.S. Patent No. 6,455,449 to Veiga et al. issued on September 24, 2002, and filed on September 3, 1999.
4. The present invention resides in the discovery that urethane-coated airbag fabrics may include a base fabric made from finer denier yarns of alternating deniers which produces a crest and trough pattern on the surface that enhances urethane adhesion.
5. As supported by the factual evidence submitted herewith, the claimed invention was conceived and, on information and belief, was reduced to practice prior to September 3, 1999.

BEST AVAILABLE COPY

6. The originals of Exhibits A through C discussed hereinafter in detail were all prepared prior to September 3, 1999. Actual dates and prospective customer name have been deleted.

7. As evidenced by Exhibit A, a base fabric of 315d warp and alternating fill of 315d and 210d denier was prepared. This fabric was designated style 4934. The first two pages of Exhibit A make up the request from the inventor for a sample of this fabric. Note that the "endues" of the fabric is indicated to be "airbag." The third page of Exhibit A is a "Sample Specification" for this fabric. The fourth page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit A.

8. Exhibit B indicates that another sample of style 4934 was prepared. This base fabric also had 315d warp and alternating fill of 315d and 210d denier. The first page of Exhibit B is a "Sample Specification" for this fabric. The third page is a "Warping, Processing, Weaving Order and Headend Ticket" (stamped "Air Bag") for this fabric. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit B.

9. As evidenced by Exhibit C, a base fabric of 420d warp and alternating fill of 420d and 315d denier was prepared. This fabric, designated style 4951, was requested by the document making up the first two pages of Exhibit C. After the base fabric was made, it was tested as indicated by the "Certificate of Conformance" forming the last two pages of Exhibit C.

10. A style 4934 base fabric was sent to the prospective customer (a coater), whereupon a urethane coating was applied. Satisfactory adhesion levels were reported.

11. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC.

Signed: ✓ Stephen B. Duark

Name: ✓ Stephen B. Duark

Title: ✓ President

Date: ✓ 1-31-05

EXHIBIT A

PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE _____

I. MARKETING

CUSTOMER: _____ CUST. S/# _____ C/R# 10-387

SCFTI S/#: 4934-02 WEAVE: PLAIN ENDUSE: Aibig LEVEL 4

GR. (MIN/NOM.)	FIN. (MIN./NOM.)	YES	NO
ENDS/IN: <u>55</u>	<u>6.0</u>	WARP SIZE OK	<u>X</u>
PICKS/IN: <u>64</u> <u>See Back</u>	<u>63-65</u>	SPUN YARN TINT	_____
WIDTH: <u>75-76</u>	<u>69.5-70.5</u>	HI. TEN REQD	_____

WARP: 315 / 144 / T-447 AK20 OLD/NEW _____

FILL: 315 / 144 / T-447 AK20 (Use Both) (Pick + Pick) AK20 OLD/NEW _____

SCFTI PROCESS: 210/68/R-20 DuPont Nylon

GREIGE	_____	CUT LENGTH RANGE	<u>500 yds.</u>
HEATSET IN THE GR.	_____	MIN PC. LENGTH	<u>200</u>
SCOUR & HEATSET	<u>X</u>	SPLICES ALLOWED	<u>600</u>
APPLY & FINISH	_____	PACKAGING	<u>to spec</u>

DESCRIBE FINISH: _____ FINISH CODE: 9036

CFM RANGE: NA CUST. SPEC # TDD DATED: _____
 COPY OF CUST. SPEC ATTACHED _____ (TEST REQ. Y/N) (CERT REQ Y/N)
 DEPT#: _____

II. TECHNICAL

TYPE LOOM: open MULTIPLE PICKS - YES/NO NO EQUIVALENT PICKS: NA
 YARDS PER BEAM: NA (WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 41.25 SLEY: S20 OFF LM PICKS: 640

WARP: 315 / 144 / T-447 AK20

FILLING: 315 / 144 / T-447 AK20
210/68/R-20 DuPont Nylon

WARP YDS/LB: 14.150 FILLING YDS/LB: 14.150 315 den / 21250 = 210 den.

EST. WARP CONTRACTION: 8%

REMARKS: sample fast -

SIGNATURE: house DATE: _____

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION	WEAVING	FINISHING	FINAL	TESTING
WINDING	<u>DORNIER</u>	BATCH	SLIT	INTERNAL
TWISTING (IN/OUT)	SULZER	<u>SCOUR</u> JIG/CONT.	<u>INSPECT</u>	<u>CUST. LOT</u>
WARPING (IN/OUT)		CAN DRY	<u>PACK</u>	NONSTD.
(BLOCK/TRANS.)		CONTACT HT SET SHIP		PPAP
BEAMING/SLASHING		CALENDER/TENTER		ANNUAL
				QUAL.

III. ENGINEERING

LOOMS/WEAVER: _____ OTHER: _____

IV. COST DEPARTMENT

DATE FWDED: _____

YDS/LOOM _____ TARGET CONTRIBUTION _____ FAB. WT. _____ OZ./SQ. YD. _____
120 HRS. _____ LOOM/WK _____ YD _____

COST: _____
VAR./YD: _____ FX/YD: _____ B/E/YD: _____ MIN. YD: _____ TAR. YD: _____

YARN PRICE: _____ WARP: _____ FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

A. *has adhesion problem with low Deniers before*
630 D.

B. *Run this as Pattern 02.*

C. *Pick insertion should BE 1/and 1. of two filling*
yarns. den. front.

D. *Low Tension on warp yarn.*

E. *This is final ONLY*

SUBMITTED BY *L. B. Bate*

DATE: _____

APPROVED BY MARKETING MGR. *for Bate for M. B. Bate*

DATE: _____

APPROVED BY DIR. TECH. SVCS *K. Bate*

DATE: _____

REJ. APPR TECH. SERV. MGR. *K. Bate*

DATE: _____

APPROVED BY MFG. REF. COMM. *K. Bate*

DATE: _____

FORWARD TO: _____ OR _____ CC: J. ANDERSON S. DUERK
J. UNDERWOOD D. HARVELL

AFETY COMPONENTS FABRIC
TECHNOLOGIES, INC.

STYLE M ER LISTING
Sample Specification

PAGE:

Style:	W4934-0002-9026		Level:	IV
Description:	315,210 60 x 64 Low Warp tension	U/M:	YD	
Fabric:	8 harness and 6 banks of drop wires, 71% air space reed			
Weave:	Dupont t-6.6 nylon			
	Plain PICK AND PICK WITH 2 FILLING YARNS			
Face:	Either			
Weave cut (yds):	500	Weave picks/inch:	64.00	
Edges:	Heat slit at loom			
Type size:	BP-44C-4% SOLIDS IN SIZE BOX, 1% STRETCH ON SLASHING			
Other:	1 end 420/68 dk blue nylon 24 ends from left side at alasher			
Warp yarn code:	RMNL1538	Supplier:	ACORDIS INDUSTRIAL FIBERS	
Description:	315/144 T-447 HRT-8 Acordis Scottsboro Nylon			
Twist:	Airbag Beams			
Merger:	None			
Fill yarn code:	RMNL1539	Supplier:	ACORDIS INDUSTRIAL FIBERS	
Description:	315/144 T-447 HRT-8 Acordis Scottsboro Nylon			
Twist:	Airbag Tubes			
Merger:	None			
Packaging:	See final inspection instructions			
Grading:	See final inspection instructions			
Purpose:	nylon coating fabric (Air bag)			
Tube size:	See final inspection instructions			
		Hold code:	02	
		Putup code:	11	Roll Goods
		Tare wt:		
		CFM code:		
Std wt (yds/lb):	1.59	Est. Off Loom	Min	Max
Weight (lbs/yd):	0.628	Width (in):	75.50	76.50
Allow dev %:	3.00	Count (W x P):	54 x 63	56 x 65
		Wt (oz/syd):	4.71	4.71
		Target	76.00	70.00
		Min	69.50	70.50
		Max	58 x 62	62 x 66
		Target	4.93	4.93
		Min	4.93	4.93
		Max	4.93	4.93

Comments: As c/r #10-387 var. W4934-01

FILLING YARN #2

RMNL 1618 210/68 R20 T-729 TUBES FROM DUPONT

Current rev: 000

Revision date: 05/25/1999

BY: TK

original

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1015 (12/97)

(QMS-102.103)

WARPING ORDER

F-1017 11/96

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-2 TYPE CLOTH: NYLON COATING AIR BAGS DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2156* SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE DIST. BTWN
BODY LOOM: DORNIER BM. HEAD: 81.75"
DEPT.: 10 ENDS: 4224 CONT: 8% SELV ENDS: 1 TOTAL ENDS: 4225
WEIGHT
SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM PER YARD: .0001

FILLING A: 315/144/T-447 AKZO SCOTTSBORO NYLON PICKS: 32 WT/YD: .1958
(14,150)

FILLING B: 210/68/R-20 DUPONT NYLON PICKS: 32 WT/YD: .1305
(21,250)
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD,LENO,ETC.

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW:

12 - BMS @ 0 352 0
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:
GREIGE EST. ACT.% GROUND OVERALL
WIDTH WEIGHT CONT COUNT COUNT:

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: BURTON, REESE, HALEY, HAVER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

315/210

MATERIAL: W4934-02-9026

LOT: 20699

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	8661T			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	427	0	0	Min:	Pounds	ASTM-D-5034
FILLING	389	0	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	42	0	0	Min: Max:	Percent	ASTM-D-5034
FILLING	44	0	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	27	0	0	Min:	Pounds	ASTM-D-2261
FILLING	26	0	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.56	0.00	0.00	Max:	Percent	1 HR @ 300 F
FILLING	0.00	0.00	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BON				Max:	Percent	
BIAS				Max:	Percent	
WEIGHT	5.14	0.00	0.00	Min: Max:	OZ/YD2	ASTM-D-3776
WIDTH	70.0	0.0	0.0	Min: Max:	INCHES	ASTM-D-3774
KNDS	59.4	0.0	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	63.4	0.0	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	0.000	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	m/sec	T.B.D.
EXPONENT				Min: Max:		T.B.D.

Material: W4934-02-9026

lot: 20699

Page 2 of 2

Piece No. Sample No.	86617			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
HULLEN BURST NET				Min:	PSI	ASTM-D-3786
pH	7.5			Min: Max:	pH units	PTH 191
EXTRACTABLES (%)	.2			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AATOC CROCK UNITS	JPS 701
AIR PERMEABILITY	0.00	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND WARP	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	.700	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

P-1065 (5/96)

[WI-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE
PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

EXHIBIT B

PETY COMPQ YTS FABRIC
TECHNOLOGIES, INC.

STYLE M/ HR LISTING
Sample Specification

PAGE:

Style:	W4934-0003-9026		Level:	IV
Description:	315 60 x 64 Acordis Low Warp tension	U/M:	YD	
Fabric:	8 harness and 6 banks of drop wires, 71½ air space reed			
Save:	Dupont t-6.6 nylon Plain	PICK AND PICK WITH 2 FILLING YARNS		
	WEAVE 3 LOTS			
Age:	Either			
Save cut (yds):	200	Weave picks/inch:	64.00	
Dges:	Heat slit at loom			
Type size:	BP-44C-4½ SOLIDS IN SIZE BOX, 1½ STRETCH ON SLASHING			
Char:	1 end 420/68 dk. blue nylon 24 ends from left side at slasher			
arp yarn code:	RMNL1538	Supplier:	ACORDIS INDUSTRIAL FIBERS	
Description:	315/144 T-447 HRT-8 Acordis	Scottsboro Nylon		
Wist:	Airbag Beams			
erge:	None			
all yarn code:	RMNL1539	Supplier:	ACORDIS INDUSTRIAL FIBERS	
Description:	315/144 T-447 HRT-8 Acordis	Scottsboro Nylon		
Wist:	Airbag Tubes			
erge:	None			
ackaging:	See final inspection instructions	Roll code:	02	
Rating:	See final inspection instructions	Putup code:	11	Roll Goods
Purpose:	nylon coating fabric (Air bag)	Tare wt:		
ube size:	See final inspection instructions	CPN code:		
td wt (yds/lb):	1.59	Est. Off Loom	Min	Max
eight (lbs/yd):	0.628	Width (in):	75.50	76.50
llow dev %:	3.00	Count (W x P):	54 x 63	56 x 65
		Wt(oz/syd):	4.71	4.71
Comments:	As c/r #10-407 as W4934-02			
	FILLING YARN #2			
	RMNL 0051 210/72 T-447 HRT TUBES FROM ACORDIS, 100% AKZO			
		Current rev:	000	
		Revision date:	08/10/1999	By: TK
		ORIGINAL		
		Est. Finished	Min	Max
		Width (in):	69.50	70.50
		Count (W x P):	58 x 62	62 x 66
		Wt(oz/syd):	4.93	4.93
		Target		70.00
				60 x 64
				4.93

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015 (12/97)

(Q15-102,103)

WARPING ORDER

F-1017 11/98

(RE: QMS - 102)

SAFETY COMPONENTS FABRIC TECHNOLOGIES, INC. - DUNEAN PLANT - 80

WARPING, PROCESSING, WEAVING ORDER AND HEADEND TICKET

STYLE: W-4934 EXP.-3 TYPE CLOTH: NYLON COATING AIR BAGS DATE: _____

NO. REED DENT ENDS TOTAL
BEAMS: 1 SPREAD: 81.23" REED: 26.00 DENT: 2 DENTS: 2158" SLEY: 52.00 SHAFTS: 8

DRAW: STRAIGHT WEAVE: PLAIN EST % TYPE DIST. BTWN
CONT: 8% LOOM: DORNIER BM. HEAD: 81.75"
DEPT.: 10 BODY SELV TOTAL
ENDS: 4224 ENDS: 1 ENDS: 4225
WEIGHT
SELVAGE: ** 1 END 420/68 DEN. DARK BLUE NYLON - HEAT SLIT AT LOOM PER YARD: .0001

FILLING A: 315/144/T-447 AKZO SCOTSBORO NYLON PICKS: 32 WT/YD: .1959
(14,150)

FILLING B: 210/72/R-20 ACORDIS 100% T-447 HRT FROM AKZO PICKS: 32 WT/YD: .1305
*INCLUDES 22 DENTS EACH SIDE FOR CATCH CORD, LENO, ETC. (21,250)

FILLING C: _____ PICKS: _____ WT/YD: _____

WARP A: 315/144/T-447 AKZO SCOTSBORO NYLON NO. ENDS: 4224 WT/YD: .3245
NO TINT - NO CUT MARKS (14,150)

WARP B: ** ADDED AT SLASHER 24 ENDS FROM LEFT NO. ENDS: _____ WT/YD: _____
EDGE AT SLASHER

WARP C: _____ NO. ENDS: _____ WT/YD: _____

WARPING LAYOUT

MAY ALSO BE WARPED AS BELOW

AIR BAG

12 - BMS @ 0 352 0
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY A SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

_____ - BMS @ _____
SELV. BODY SELV.

FOR HEADEND TICKET:

GREIGE EST. ACT.% GROUND OVERALL
WIDTH _____ WEIGHT _____ CONT _____ COUNT _____ COUNT: _____

ISSUED BY: FRANCISCO BEDOYA Francisco Bedoya DATE: _____

cc: ~~BEASLEY~~ BURTON, REESE, HALEY, HAVER, B. JAMES, D. ROBBINS, WEAVE ROOM, J. GLENN
D-10 R. DEATHERAGE (3), FRANCISCO BEDOYA (3) D-10

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

INFORMATION ONLY

MATERIAL: W4934-03-9026

LOT: 21138

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	450	442	0	Min:	Pounds	ASTM-D-5034
FILLING	379	389	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	38	38	0	Min: Max:	Percent	ASTM-D-5034
FILLING	39*	40*	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	28	27	0	Min:	Pounds	ASTM-D-2261
FILLING	27	27	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.56	1.56	0.00	Max:	Percent	1 HR @ 300 F
FILLING	.31	.31	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOR	.31	.50		Max:	Percent	
BIAS	.75	.75		Max:	Percent	
WEIGHT	5.02	4.99	0.00	Min: Max:	OZ/YD2	ASTM-D-3776
WIDTH	70.5	71.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	58.3	58.3	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	62.6	62.5	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.010	.010	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	mm/sec	T.B.D.
EXPOSURE				Min: Max:		T.B.D.

lot: 21138

Material: W4934-03-9026

Piece No. Sample No.	17530	17540		Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MULLEN BURST BKT				Min:	PSI	ASTM-D-3786
pH	7.1	6.8		Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.5	.6		Max:	Percent	JPS 701
DYE STAIN	5	5		Min: 4	AAFCO CROCK UNITS	JPS 701
AIR PERMEABILITY	2.04	2.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS						
WARP	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	MG/CM2	ASTM-D-4032
CIRCULAR BEND						
WARP	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032
FILL	.800	.800	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN TOTAL WITHOUT THE
PERMISSION OF THE ORIGINATOR.

INFORMATION ONLY

EXHIBIT C

PROD. REQ. & COST FORM

TO: FRANCISCO BEDOYA

DATE

I. MARKETING

CUSTOMER:

CUST. S/#

C/R# 10-386

SCFTI S/#: 28355

WEAVE: Plain

ENDUSE: Fibreg

LEVEL 4

GR. (MIN./NOM.)
ENDS/IN: 41-43
PICKS/IN: 48-50
WIDTH: 69.5-70.5

FIN. (MIN./NOM.)
44-
49
65-66

WARP SIZE OK YES NO
SPUN YARN TINT
HI. TEN REQD

WARP: 420/48/R20 Nylon Dupont T743 (OLD/NEW)

FILL: 420/68/1220 Nylon Dupont T743 (1/2) PICKS (OLD/NEW)
315/96/R20 Nylon Dupont T729 (1/2) PICKS

SCFTI PROCESS:

GREIGE

HEATSET IN THE GR.

SCOUR & HEATSET

APPLY & FINISH

CUT LENGTH RANGE
MIN PC. LENGTH
SPLICES ALLOWED
PACKAGING

500
200
yes
1" Spiral Tube
wrapped in clear plastic
FINISH CODE: 9026

DESCRIBE FINISH:

CFM RANGE: NA

CUST. SPEC # T8D

DATED:

COPY OF CUST. SPEC ATTACHED

(TEST REQ. Y/N)

(CERT REQ Y/N)

DEPT#: 10

II. TECHNICAL

TYPE LOOM: Dornier

MULTIPLE PICKS - YES/NO EQUIVALENT PICKS: 1/2

YARDS PER BEAM: N/A

(WARP IN PLANT & NEW YARNS ONLY)

CONST. IN LOOM: REED WIDTH: 74.60"

SLEY: 40.0"

OFF LM PICKS: 490

WARP: 420/68/R20 Nylon Dupont T-743

FILLING: 315/96/R20 Nylon Dupont T-729 pick and piece

WARP YDS/LB: 10.600

FILLING YDS/LB: 10.600: 4207, 14.450: 315

EST. WARP CONTRACTION: 890

REMARKS:

sample first

SIGNATURE:

Romain

DATE: 5-21-99

PROCESSES REQUIRED: (CIRCLE AS APPLICABLE)

PREPARATION

WEAVING

FINISHING

FINAL

TESTING

WINDING

DORNIER

BATCH

SLIT

INTERNAL

TWISTING (IN/OUT)

SULZER

SCOUR - JIG/CONT.

INSPECT

CUST. LOT

WARPING (IN/OUT)

CAN DRY

PACK

NONSTD.

(BLOCK/TRANS.)

CONTACT HT SET SHIP

PPAP

BEAMING/SLASHING

CALENDER/TENTER

ANNUAL

QUAL.

III. ENGINEERING
LOOMS/WEAVER: _____

OTHER: _____

DATE FWDED: _____

IV. COST DEPARTMENT

YDS/LOOM
120 HRS. _____

TARGET CONTRIBUTION
LOOM/WK _____ YD _____

FAB. WT. _____

OZ./SQ. YD. _____

COST: _____

VAR./YD: _____

FX/YD: _____

B/E/YD: _____

MIN. YD: _____

TAR. YD: _____

YARN PRICE: _____

WARP: _____

FILL: _____

SPECIAL INSTRUCTIONS: _____

DISCLAIMERS/COMMENTS: _____

A) Urethane adhesion values below 630d are
very low. Trial evaluation by making surface
undercoat with two different densities should
provide better surface adhesion.
B) If successful would remarkets in warp
and fill.

SUBMITTED BY J. Holcomb

DATE: _____

APPROVED BY MARKETING MGR. For Bill for J. B. Duerk

DATE: _____

APPROVED BY DIR. TECH. SVCS K. Bate

DATE: _____

REJ. APPR TECH. SERV. MGR. K. Bate

DATE: _____

APPROVED BY MFG. REF. COMM. K. Bate

DATE: _____

FORWARD TO: _____

OR _____

CC: _____

J. ANDERSON
J. UNDERWOOD

S. DUERK
D. HARVELL

CERTIFICATE OF CONFORMANCE

PAGE 1 OF 2

MANUFACTURER: Safety Components Fabric Tech. Inc.
Duncan Plant
Greenville, SC

TEST CONDITIONS: 72°F / 65% R.H.

CUSTOMER ID:

MATERIAL: W4951-01-9026

LOT: 20701

TEST DATE:

SPECIFICATION: TBD

Piece No. Sample No.	8619T			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
GRAB TENSILE WARP	430	0	0	Min:	Pounds	ASTM-D-5034
FILLING	424	0	0	Min:	Pounds	ASTM-D-5034
ELONGATION WARP	34	0	0	Min: Max:	Percent	ASTM-D-5034
FILLING	43	0	0	Min: Max:	Percent	ASTM-D-5034
TONGUE TEAR WARP	47	0	0	Min:	Pounds	ASTM-D-2261
FILLING	41	0	0	Min:	Pounds	ASTM-D-2261
TRAPEZOID TEAR WARP	0	0	0	Min:	Pounds	ASTM-D-4533
FILLING	0	0	0	Min:	Pounds	ASTM-D-4533
SHRINKAGE WARP	1.25	0.00	0.00	Max:	Percent	1 HR @ 300 F
FILLING	0.00	0.00	0.00	Max:	Percent	1 HR @ 300 F
FLAMMABILITY	0.0	0.0	0.0	Max:	IN/MIN	FMVSS-302
BOW	.56			Max:	Percent	
BIAS	.50			Max:	Percent	
WEIGHT	5.10	0.00	0.00	Min: Max:	OZ/YD2	ASTM-D-3776
WIDTH	66.0	0.0	0.0	Min: Max:	INCHES	ASTM-D-3774
ENDS	44.5	0.0	0.0	Min: Max:	EPI	ASTM-D-3775
PICKS	48.3	0.0	0.0	Min: Max:	PPI	ASTM-D-3775
BODY THICKNESS	.012	0.000	0.000	Min: Max:	Inches	ASTM-D-1777
DYNAMIC AIR PERM ADAP				Min: Max:	ml/sec	T.B.D.
EXPOIMENT				Min: Max:		T.B.D.

Material: W4951-01-9026

lot: 20701

Page 2 of 2

Piece No. Sample No.	86191			Specification Requirement	UNIT OF MEASURE	TEST PROCEDURES
MOLLEN BURST NET				Min:	PSI	ASTM-D-3786
pH	7.0			Min: Max:	pH units	FTM 191
EXTRACTABLES (%)	.5			Max:	Percent	JPS 701
DYE STAIN	5			Min: 4	AA7CC CROCK UNITS	JPS 701
AIR PERMEABILITY	6.04	0.00	0.00	Min: Max:	CFM	ASTM-D-737
CANTILEVER STIFFNESS WARP	0.0	0.0	0.0	Min: Max:	KG/CM2	ASTM-D-4032
FILL	0.0	0.0	0.0	Min: Max:	KG/CM2	ASTM-D-4032
CIRCULAR BEND WARP	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032
FILL	0.000	0.000	0.000	Min: Max:	Pounds	ASTM 4032

I certify that the above tests were performed under my supervision in accordance with specification test requirements and that the reported test results are true, valid, and applicable to the samples tested. Test results as shown are within the acceptance limits for the parameters of the above material specifications except as noted with an asterisk (*).

ROBERT M. HOLCOMBE LAB DIRECTOR
(864) 240-2624

F-1065 (5/96)

[WI-2021]

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